



0862.002866 (862.2866)

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
SUSUMU GOTO)	Examiner: D. Vanore
Appln. No.: 09/330,154)	Group Art Unit: 2881
Filed: June 11, 1999)	Allowed: July 12, 2005
For: A PROJECTION APPARATUS FOR)	Confirmation No. 9061
PROJECTING A PATTERN FORMED	:	
ON A MASK ONTO A SUBSTRATE)	
AND A CONTROL METHOD FOR A	:	
PROJECTION APPARATUS)	
(AS AMENDED)	:	August 26, 2005

MAIL STOP ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CORRECTED NOTICE OF ALLOWANCE

Sir:

Applicant is in receipt of a Notice of Allowance (Form PTOL-85) dated July 12, 2005. The Issue Fee is due on October 12, 2005, and is being paid concurrently herewith.

In the interim, Applicant respectfully requests issuance of a corrected Notice of Allowance, to correct a Patent and Trademark Office error in the title of invention, which is set forth as

"A PROJECTION APPARATUS FOR PROJECTING A
PATTERN FORMED ON A MARK ONTO A

SUBSTRATE AND A CONTROL METHOD FOR A
PROJECTION APPARATUS"

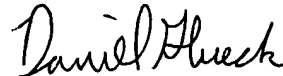
but should read (with emphasis added):

--A PROJECTION APPARATUS FOR PROJECTING A
PATTERN FORMED ON A MASK ONTO A
SUBSTRATE AND A CONTROL METHOD FOR A
PROJECTION APPARATUS--.

Favorable consideration hereof is earnestly solicited.

Applicant's undersigned attorney may be reached in our Washington, D.C.
office by telephone at (202) 530-1010. All correspondence should continue to be directed
to our address listed below.

Respectfully submitted,



Attorney for Applicant

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COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

Sir:

Applicant is in receipt of a Notice of Allowance (Form PTOL-85) dated July 12, 2005. The Issue Fee is due on October 12, 2005, and is being paid concurrently herewith.

Applicant respectfully traverses the Reasons for Allowance set forth in the July 12, 2005 Notice of Allowability on the grounds that whereas the Reasons state "a projection optical system having two magnetic lens units is operated such that the principle planes of the two lens units are moved as a charged particle beam passes there through,

changing the distribution of the magnetic field along the beam axis and causing third-order and fifth-order image distortion to be cancelled out”, the claims instead recite, inter alia:

- (a) a projection optical system which projects the pattern onto the substrate, the projection system including a first unit having first and second magnetic lenses, and the controller changes a distribution of an axial magnetic field generated by the first unit in the direction of the optical axis of the projection optical system to move the principal plane of the first unit by changing a ratio of currents to be respectively supplied to the first and second magnetic lenses, so that third-order image distortion and fifth-order image distortion substantially cancel each other (Claims 1 and 15);
- (b) a projection optical system which has a magnetic lens and which projects the pattern onto the substrate, and the controller changes a distribution of an axial magnetic field generated by the magnetic lens in the direction of the optical axis of the projection optical system to move the principal plane of the magnetic lens by controlling a current to be supplied to the magnetic lens, so that third-order image distortion and fifth-order image distortion substantially cancel each other (Claims 33, 41, 42, and 44); and
- (c) a projection optical system which projects the pattern onto the substrate, the projection system including (a) a first unit having first and second magnetic lenses and (b) a second unit having third and fourth magnetic lenses, and a controller arranged to change a

distribution of an axial magnetic field generated by the first unit in the direction of the optical axis of the projection optical system to move the principal plane of the first unit by changing a ratio of currents to be respectively supplied to the first and second magnetic lenses, and to change a distribution of an axial magnetic field generated by the second unit in the direction of the optical axis of the projection system to move a second principal plane of the second unit in the direction of the optical axis of the projection optical system by changing a ratio of currents to be respectively supplied to the third and fourth magnetic lenses so that third-order image distortion and fifth-order image distortion substantially cancel each other (Claim 35).

Applicant's undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 530-1010. All correspondence should continue to be directed to our address listed below.

Respectfully submitted,

A handwritten signature in cursive script, reading "Daniel S. Glueck", is written over a horizontal line.

Attorney for Applicant

Daniel S. Glueck

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